

ABSTRACT

A gas friction pump including stationary (6) and rotatable (5), secured on a rotatable rotor shaft (4), pump-active elements, wherein the rotor shaft (4) and the rotatable pump-active elements (5) form components of the rotor, and the rotor shaft (4) is supported by two, spaced from each other, radial bearings (8, 9), of which one is located closer to the gravity center of the rotor than the other, and an axial bearing (16), characterized in that the radial bearing (9), which is located closer to the gravity center of the rotor, is formed as a gas bearing.

In an advantageous embodiment, the gas bearings are formed as modules and can be brought into engagement with a cylindrical housing section and secured.